Artificial Blood
for Future Patients
Every doctor’s has dream to have readily available blood for their patients.
• But in reality, the situation is quite different. There is no appropriate blood for dying patient.
• But this problem has overcome through coming of artificial blood cells.
• Artificial Blood seems like a good alternative. But it’s true, Red blood cells can also be produced in the lab.
• This great invention is invented by British researchers. **DARPA** teamed up with a company called Arteriocyte to research methods for manufacturing blood without an actual donor on-hand.
• This team used a technique that can reliably produce an unlimited number of red blood cells.
• The trick is to create “immortalized” premature red blood cells. Thus, making mass production a real possibility.
Challenges

• A British researcher said “The biggest challenge is translating the technique to commercial manufacturing.”
They have to produced a few liters of blood in the lab, but there’s a big difference between that and the massive volumes needed to serve even a single hospital.
What about Mass Production?

• Recently don’t expect to see a complete change in artificial blood even if this new technique was ready for the current situation.
• Mass production is most likely to focus on people with rare blood types and where donate blood is hard to come.
Thank you!

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